

Task #2: Simple Mensuration

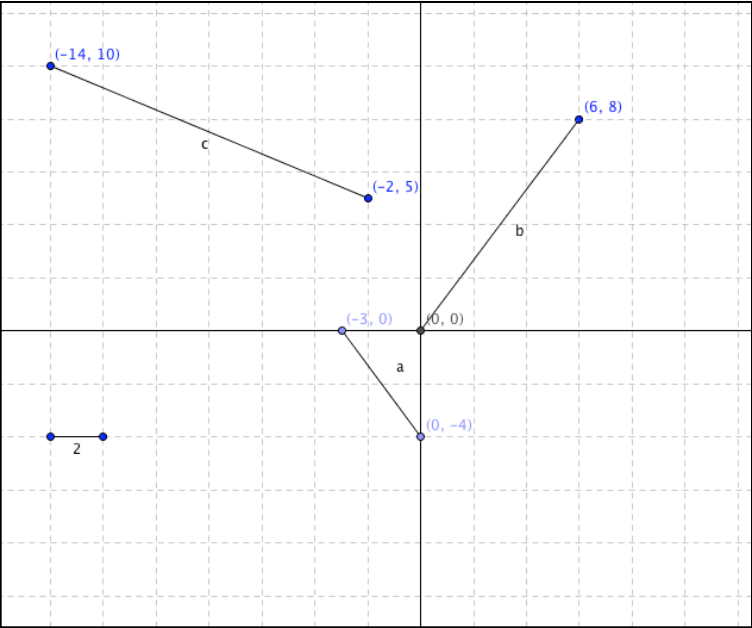
Warm-up

1. Find the measure of the three segments below:

a =

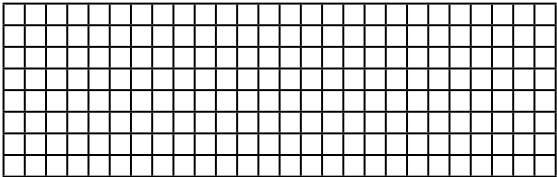
b =

c =



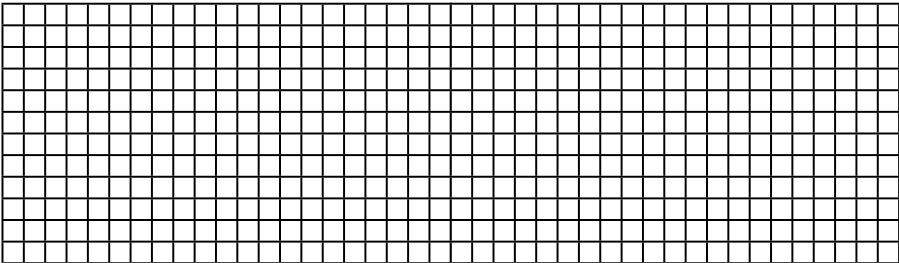
The 26 X 8 Room

2. What is the largest tile that can be used to cover the floor of this room with no extra portions left? Fill the room with these tiles.



The 42 X 12 Room

3. What is the largest tile that can be placed in this room (this time there can be extra parts left)? Draw as many of these tiles as you can.



4. How many of these tiles can be drawn?

5. Describe the region that is leftover.

6. Perform this division using the traditional method for division:

$42 \div 12$

What is the remainder?

7. Compare the division you just performed with the drawing you did above (20 words).

8. Why is the leftover length on the longer side shorter than the original shorter side (12)?

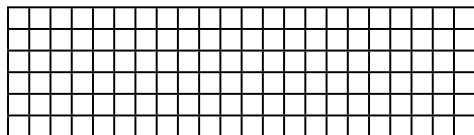
9. What is the largest tile that can be drawn in the leftover region above? Draw as many of these tiles as you can in the leftover region.

10. How many of these tiles can be drawn in the leftover region?

11. Perform the division modeled by the drawing you just made.

The 22 X 6 Room

12. What is the largest tile that can be placed in this room (this time there can be extra parts left)? Draw as many of these tiles as you can.



13. How many different size tiles do you need to tile this room using the method from the last room?

14. Draw a room that would require four different size tiles?

15. What size tiles would be required if the room's dimensions were prime numbers?